

ACC NR: AM5009843

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SUB CODE: 08,20 / SUBM DATE: 12Jun64 / SOV REF: 040 / OTH REF: 013

Card 2/2

ACC NR: AP5035893

SOURCE CODE: UR/0413/66/000/020/0130/0130

INVENTOR: Gol'tseman, F. M.; Birman, A. Ye.; Moiseyev, O. N.; Slutskovskiy, A. I.; Bogdanov, V. V.; Yungans, V. Yu.; Kartavtsev, S. M.; Nakhamkin, S. A.

ORG: None

TITLE: A device for producing summation tapes based on the method of controlled directional reception of seismic waves. Class 42, No. 187333

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 20, 1966, 130

TOPIC TAGS: seismic wave, seismography, data analysis, electronic equipment

ABSTRACT: This Author's Certificate introduces: 1. A device for producing summation tapes based on the method of controlled directional reception of seismic waves. The installation consists of a magnetic recorder, amplifiers and a multichannel summation unit. The speed of seismogram analysis is increased by basing the multichannel summation unit on delay lines equal in number to the channels to be added. Taps are made from each line corresponding to the various directions of summation, as well as taps from the various delay lines corresponding to one and the same direction of summation. These taps are connected through decouplers and resistors placed at the inputs of the summation amplifiers to filters with their outputs connected to recording galvanometers. 2. A modification of this device in which the winding of the step

Card 1/2

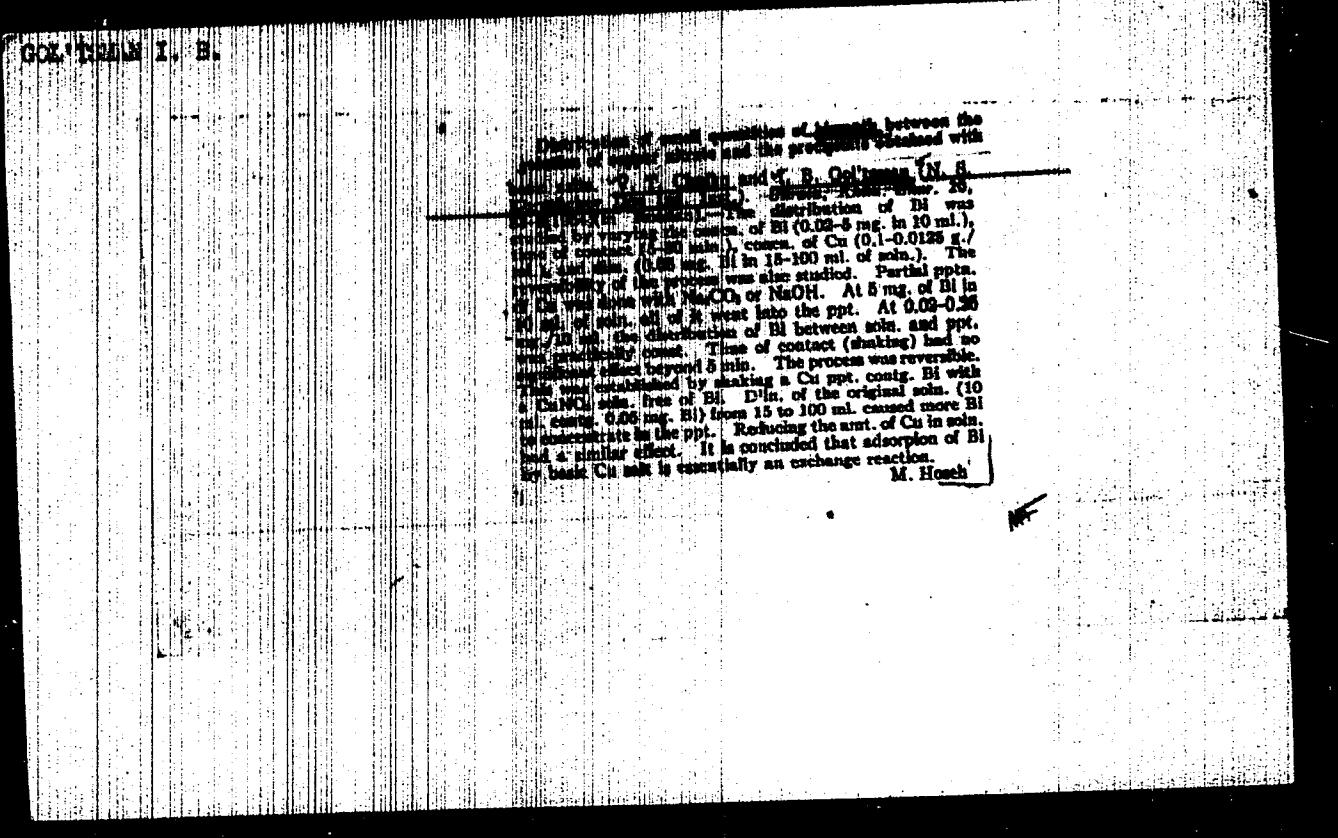
UDC: 550.340.8

ACC NR: AP6035893

switches which reverse the magnetic recording heads is connected to a contact mechanism on the magnetic recording drum. 3. A modification of this device in which scatter in the amplification factors of the summation amplifiers is compensated by making the resistors at the input to these amplifiers in two sections, one of which is a potentiometer. 4. A modification of this device in which summation quality is improved by using an automatic amplification control system after the frequency filters during playback.

SUB CODE: /09_08/ SUMM DATE: 23Apr65

Card 2/2



5(2)

SOV/56-59-1-21/54

AUTHORS: Babkin, M. P., Gol'tseman, I. B., Voloskovets, A. L.

Lotareva, V. I.

TITLE:

Solubility of the Oxalates of Calcium, Strontium, Barium, Iron, Cobalt, Nickel, Manganese, Zinc, Cadmium, and Lead in Aqueous Solutions of Acetic Acid (Rastvorimost' oksalatov kal'tsiya, strontsiya, bariya, zheleza, kobal'ta, nikelya, margantsa, tsinka, kadmiya i svintsa v vodnykh rastvorakh ukusnoy kisloty)

PERIODICAL:

Nauchnyye doklady vysshyey shkoly. Khimiya i khimicheskaya tekhnologiya, 1959, Nr 1, pp 89-91 (USSR)

ABSTRACT:

Where it is known in analytical chemistry to precipitate metals as oxalates there have been no numerical data on the solubility of oxalates in acetic acid although an addition of acetic acid is recommended for some precipitations of oxalate in analytical textbooks. For this reason the salts $\text{CaC}_2\text{O}_4 \cdot \text{H}_2\text{O}$, $\text{SrC}_2\text{O}_4 \cdot \text{H}_2\text{O}$, $\text{BaC}_2\text{O}_4 \cdot \text{H}_2\text{O}$, $\text{MnC}_2\text{O}_4 \cdot 2.5\text{H}_2\text{O}$, $\text{ZnC}_2\text{O}_4 \cdot 2\text{H}_2\text{O}$, $\text{FeC}_2\text{O}_4 \cdot 2\text{H}_2\text{O}$, $\text{CoC}_2\text{O}_4 \cdot 2\text{H}_2\text{O}$, $\text{NiC}_2\text{O}_4 \cdot 2\text{H}_2\text{O}$, $\text{CdC}_2\text{O}_4 \cdot 3\text{H}_2\text{O}$ and

Card 1/2 PbC_2O_4 have been kept in acetic acid of various concentrations

SOV/156 09-11-21/54

Solubility of the Oxalates of Calcium, Strontium, Barium, Iron, Cobalt, Nickel, Manganese, Zinc, Cadmium, and Lead in Aqueous Solutions of Acetic Acid

at room temperature for four days and then at 25° for four hours, whereafter the undissolved oxalate was removed by filtration and the oxalate contained in the acetic acid solution acidified with sulfuric acid was titrated with potassium permanganate. The solubility values are given in the table and lie between $0.5 \cdot 10^{-4}$ mole/l (for lead) and $4 \cdot 10^{-4}$ mole/l for barium. The solubility increases initially with an increase in the concentration of the acid and reaches its maximum for Ca and Pb at 1-2 ml/l, for Sr, Ba, Cl at 2ml/l, for Fe, Co, Zn at 5 ml/l, and for Ni and Mn at 0.6 ml/l, whereafter it decreases slowly (Diagrams, Fig 1). There are 1 figure, 1 table, and 13 references, 5 of which are Soviet.

ASSOCIATION: Kafedra analiticheskoy khimii Donetskogo industrial'nogo instituta (Chair of Analytical Chemistry of the Donetsk Institute of Industry)

SUBMITTED: July 14, 1958

Card 2/2

GOL'TSMAN, Isaak Iosifovich; MARIZHMYY, Viktor Artemovich; NUL'MAN,
Matan Isaakovich; MIKHAYLOV, G., red.; KOVAL'CHUK, G.,
tekhn.red.

[Windows and doors of a new type] Okna i dveri novykh
konstruktsii. Kiev, Gos.isd-vo lit-ry po stroit. i arkhit.
USSR, 1959. 78 p.
(Doors) (Windows) (MIRA 13:5)

GOL'TSMAN, Isaak Isailevich; MARIZHNTY, Viktor Artemovich; SOSNOV-
SKAYA, G., red.; MARINSKAYA, A., tekhn. red.

[Manufacture of wood-chip panels] Izgotovlenie drevesno-
struzhechnykh plit. Kiev, Gos. izd-vo lit-ry po stroit.i
arkhit. USSR, 1961. 88 p. (MIRA 14:5)
(Wood, Compressed)

GOLITSMAN, L.

Meteorological Abst.
Vol. 4 No. 2
Feb. 1953
Bibliography on
Turbulent Exchange

42-333

551.508:551.501:551.451(02)

Golitsman, L., Osnovy metodiki aerofizicheskikh izmerenii. [Fundamentals of the methodology of aerophysical measurements.] Moscow, Gosizdat., 1950. 360 p. 79 figs., 25 tables, 121 refs., etc. DIG--This textbook is one of the most important works in the field of meteorology published during the past decade. Beginning with the theory of atmospheric turbulence, representativeness of observations, and accuracy of measurements due to the turbulent structure of the atmosphere as well as to instrumental characteristics, the author takes up in separate chapters the structure or nature of each of the important meteorological elements (temperature, humidity, pressure and wind), and the factors influencing the accuracy of instruments commonly used to measure each of these elements. The superiority of the performance of the resistance thermometer (platinum wire) over that of the conventional thermometer is due to the small lag (quick response), and to nondependence of readings on solar radiation or on ventilation. True air temperature can thus be measured for instant conditions or averaged over 2-3 min. Errors in shelters amount to 1°C or 10% relative humidity whichever system is used. Curves showing probable distribution of errors and actual readings are presented for each type of instrument. A number of original instruments for measuring

Gol'tsman, M. I.

micrometeorological elements are described and illustrated. The appendix (p. 346-354) discusses the measurement of vertical temperature, humidity and wind gradients. A long chapter (115 pages) devoted to wind measurement takes up measurement of horizontal and vertical velocities and includes several new vertical velocity instruments developed at the Central Geophysical Observatory in Leningrad. The extensive list of references is not limited to Soviet works. (Same item as 4.1-3, Jan. 1953, MAB.) Subject Headings: 1. Turbulence measurement 2. Micrometeorological instruments 3. Instrument accuracy 4. Micro-oscillations 5. Textbooks.—A.A., M.R.

Goltsman, L. L.
USSR / General Biology. General Histology

B-3

Abs Jour: Ref Zhur - Biol., No 6, 1958, 23756

Author : Goltsman, L. L.
Inst : Not given

Title : Formation of Multinuclear Cells in the Process of
Encapsulating Foreign Bodies.

Orig Pub: Sb. nauchn. stud. rabot. Kurskiy med. in-t, 1956,
No 3, 66-70

Abstract: In order to study the process of giant cells forma-
tion, sterile glass plates (made from cover glasses)
were put into abdominal cavities of mice and rats,
and were removed after different periods of time
(from three hours to 100 days). It was established
that multinuclear cells are formed from fibroblasts
by amitotic division of the nucleus by fusion of
mononuclear cells or from mesothelial cells as a
result of amitotic division.

Card 1/1

GOL'TSMAN, L.L. (Bryansk)

The giant cells of tumors. Arkh. pat. 25 no.10:24-28 '63.

(MIRA 17:7)

1. Is kafedry histologii i embriologii Leningradskogo veterinarnego instituta (zav. - prof. Z.S. Matsnel'son) i patologoanatomicheskogo otdeleniya (zav. A.V. Shveynov) Bryanskoy oblastnoy bol'niцы.

GOLITSMAN, Z. S. (Leningrad)

Some anomalies of mitotic cell division on the surface of a foreign body in the abdominal cavity. Arkh. pat. 27 no. 8:72-74 '65.

(MIRA 18:10)

I. Kafedra gistolozii i embriologii (zav. - prof. Z. S. Katsnel'son)
Leningradskogo veterinarnogo instituta.

GOL'TSMDAN, I. I.

Specific type of giant cells produced by encapsulation
of a foreign body in the peritoneal cavity. TSitologija
7 no. 6:738-741 N.D '65.

(MIRA 19:1)

1. Kafedra gistologii i embriologii Leningradskogo veteri-
narnogo instituta. Submitted July 3, 1964.

GOL'TSMAN, Lyubov' Naumovna, kand.ekonom.nauk; ZAVADSKAYA, Irina
Vladimirovna, kandidat ekonom.nauk; ORLOVA, Raissa Il'inichna,
nauchnyy otpravnik; YAMPOL'SKAYA, Tat'yana Georgiyevna,
kand.tekn.nauk; KHOLOGOZOVA, T.A., red.izd-va; SHLIKHT,
A.A., tekhn.red.

[Maintaining city streets] Voprosy ekspluatatsii gorodskikh
dorog. Moskva, Izd-vo M-va kommun.khoz.RSFSR, 1959. 88 p.
(MIRA 12:11)

(Streets--Maintenance and repair)

GOLTSMANAITE, M

AUSRAUSENITE, S.; HOLOMANAITE, M.

Steeping corn seed in some microelement solutions before planting.
Liet ak darbai B no.4:181-192 '59
(EKA 9:3)

1. Lietuvos TSR Mokslu akademijos Biologijos institutas.
(Corn (Maize))

GOL'TEVAN, M. I. W robotam po instrumental'noj meteorologii
v SSSR za poslednie 20 let. (On the work done
on instrumental meteorology in the U.S.S.R. During
the last n. 20 years). Meteorologija i Gidrologija
No. 4 104-126 April 1939. 12 figs. 22 refs.
BIC--The major works on humidity measurement
are listed on p. 109--113 and the author's dew
point meters, constructed in 1924 and 1936,
are described. Subject Headings: 1. Dew point
hygrometers 2. Humidity measurement.

GOL'TSMAN, M. I., Professor

"Concerning the Methods of Basic Meteorological Observations by Instruments."
Sub 22 Apr 47, Central Inst of Weather Forecasting

Dissertations presented for degrees in science and engineering in Moscow
in 1947

SO: Sum No. 457, 18 Apr 55

GOL'TSMAN, M. I.

Gol'tsman, M. I. - "On the problem of measuring the humidity in the Arctic,"
(With Editor's footnotes), Problemy Arktiki, 1948 (Published in 1949),
No. 3, p. 42-71, - Bibliog: 23 items

SO: U-4355, 14 August 53, (Letopis 'Zhurnal 'nykh Statey, No. 15, 1949.)

GOL'TSMAK, M. I.

PHASE I

TREASURE ISLAND BIBLIOGRAPHICAL REPORT

AID 104 - I

BOOK

Author: GOL'TSMAK, M. I.

Full title: FUNDAMENTALS OF AEROPHYSICAL MEASUREMENTS

Transliterated title: Osnovy metodiki aerofizicheskikh izmerenii

Publishing Data:

Originating Agency: None

Publishing House: State Publishing House of Technical - Theoretical Literature

No. pp.: 360 No. of copies: 3,000

Date: 1950

Editorial Staff:

Editor: None

Tech. Ed.: None

Editor-in-Chief and Others: Acknowledgement is expressed of help given by Bystrov, S. L.,

Appraiser: None

Bogoliubov, V. P., Kavcikov, A. A.,

Yofin, M. I., Mikhaylov, G. I., Kiryukhin, V. V.,

Sel'skova, E. S., and Timanovich, L. T.

Text Data:

Coverage: The author defines the structure of the atmosphere and its turbulence; describes temperature, humidity, pressure and wind, and the corresponding meteorological instruments with their fundamental properties; gives the methods of observation, the results obtained, and the degree of their accuracy; introduces a critical mathematical analysis.

Purpose: To give an understanding of the characteristics of the medium (the atmosphere), in which aerophysical measurements are executed.

1/2

GOL'TSEMAN, M.I.

Osnovny metodiki aerofizicheskikh issledovaniy

Call No.: AF544333
AID 104 - I

Facilities: Main Geophysical Observatory (GOO) where Znamenskiy, A. A.,
Zagaytsevich, N. N., Orlov, B. S., and Gol'tseman, Molsey
conducted their research.

No. of Russian and Slavic References: 90

Available: A.I.P., Library of Congress.

2/2

GOL'TSMAN, M. I.

"Principles of methods of aerophysical measurements." Reviewed by B. A.
Mirsov. Izv. AN SSSR Ser. geogiz. No 2, 1952.

BOL'TSMAK, M. I.

Modern methods of measuring humidity. Meteor. i gidrol. no.3:
55-59 Mr '56.
(Humidity--Measurement) (Hygrometry)

BR

PHASE I BOOK EXPLOITATION

SOV/6021

Goltsman, M. I., and V. V. Frolov

Strukturnyye kharakteristiki atmosfery nad Arktikoy; resul'taty rabot letayushchey meteorologicheskoy observatoriⁱ (Structural Characteristics of the Atmosphere Above the Arctic; Results of Operations by the Airborne Meteorological Observatory) Leningrad, Morskoy transport, 1960. 147 p. (Series: Trudy Arkhicheskogo i antarkticheskogo nauchno-issledovatelskogo instituta, t. 238) Errata slip inserted. 600 copies printed.

Sponsoring Agency: Arkhicheskiy i antarkticheskiy nauchno-issledovatel'skiy institut, Glavnoye upravleniye severnogo morskogo puti Ministerstva morskogo flota SSSR.

Ed. (Title page): N. Z. Pinus; Ed.: L. G. Kaplinskaya; Tech. Ed.: L. P. Drozhzhina.

PURPOSE: This book is intended for meteorologists, aerologists, aviation meteorologists, and Arctic area specialists.

Card 1/9

Structural Characteristics of (Cont.)

SOV/6021

COVERAGE: The book discusses the state of radiosonde observations and aircraft sounding of the atmosphere on the basis of the experience of the Arctic and Antarctic Scientific Research Institute in the central Arctic region over a period of eleven years. The techniques and equipment used in measuring various meteorological factors are described. The type of aircraft (Il-12, Km-2, and Tu-4) put at the disposal of the Institute for this purpose are held to be inadequate in certain respects. A map (p.34) shows the regions over which airborne meteorological observatories operated in the period 1948 - 1956. Diagrams and photographs are provided of the equipment used. The code for sending aerometeorological reports from aircraft is given in the Supplement. I. M. Dolgin, A. I. Voskresenskiy, and K. I. Chukanin assisted in the preparation of the book. There 161 references: 81 Soviet, 45 English, 19 German, 15 French, and 1 Chinese.

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Foreword

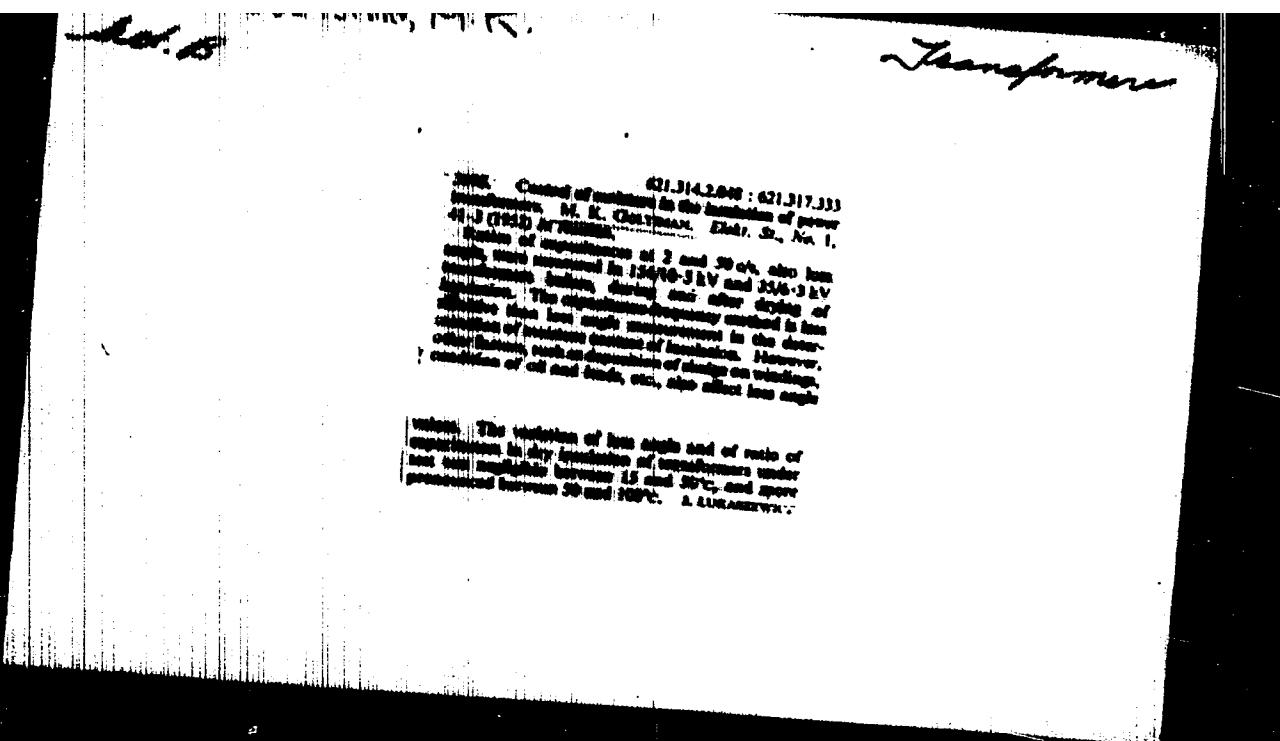
Card 2/6

5

GOLITSMAN, M.I.; FROLOV, V.V.

Temperature measurement errors of radiosondes. Probl.Arkt.1
Antarkt. no. 3:53-63 60.
(Atmospheric temperature)
(Radiosondes)

Temperature measurement errors of radiosondes. Probl.Arkt.1
Antarkt. no. 3:53-63 60.
(Atmospheric temperature)
(Radiosondes)



C. A. GOL'TSMAN, M.M.

25

Utilization of fixatives DTU and DTAM. L. Ya. Gal'perin and M. M. Gol'tsman. *Uprabot Prom. 11*, No. 4, p. 15 (1951). DTU is the monomerate of the base DTs and is formed by the hydrolysis in HClAc of the resin obtained by condensing dicyanodiamide with HCHO while DTAM is the copper deriv. of DTU. Direct-dyed, dark-colored knitted material is thoroughly washed and treated for 30 min. at 45° in bath contg. 3 g./l. of fixative. DTU increases resistance against laundering at 40°, perspiration, and wet rubbing but not against dry rubbing, resistance against light is decreased (according to literature data) DTAM does not have these drawbacks. B. Z. Kamch

GOL'TSMAN, M.N.; FISHER, F.M., inzh.-khimik

Experience in the application of ultrasonic waves in dyeing.
Part 1. Tekst. prom. 22 no. 7:44-46 Jl '62.

(MIRA 17:1)
1. Nauchn'ik khimicheskoy laboratori Leningradskoy
chulochno-trikotazhnoy fabriki "Krasnoye znamya" (for
Gol'tzman), 2. Nauchno-issledovatel'skaya laboratoriya
Leningradskoy chulochno-trikotazhnoy fabriki "Krasnoye
znamya" (for Fisher).

XHARKHAROV, A.A., doktor khim. nauk, prof.; KALINAROV, I.Ya., kand.tehn. nauk, Starshiy nauchnyj sotrudnik; GOL'TSMAN, M.M.; ARTAMONOVA, Z.I.

Use of active dichlorotriazine dyes for dyeing knit nylon fabrics.
Tekhn. zhurn. 25 no. 1:63-66 Ja '65. (MIRA 18:4)

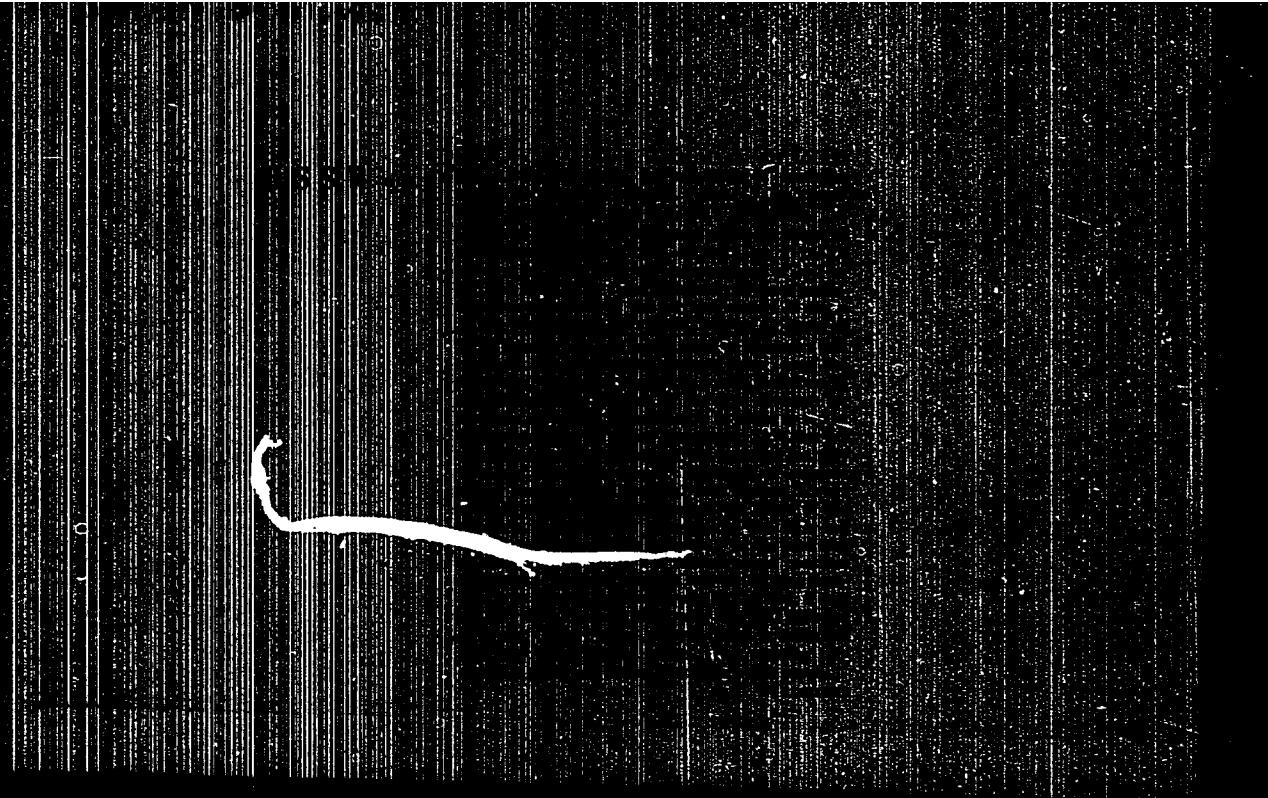
1. Lenigradskiy institut tskestionnoj i legkoy promyshlennosti imeni S.M.Kirova (for Xarkharov). 2. Institut khimii AN Fizicheskoy SSR (for Kalinarov). 3. Sverdlovskiy khimicheskoy laboratoriye chuloechno-trikotazhnoy fabriki "Krasnaya znamya" Sverdlovskogo khozyaystva Lenigradskogo ekonomicheskogo rayona (for Gol'tzman). 4. Khimicheskaya laboratoriya chuloechno-trikotazhnoy fabriki "Krasnaya znamya" Sovet'skogo narodnogo khozyaystva Lenigradskogo ekonomicheskogo rayona (for Artamonoval).

GOL'TSEVAN, N.S., insulener.

Improving the resistance of insulation exposed to intensive soiling.
Elet. sta. 25 no. 6:37-40 Je '54.
(Electric insulators and insulation) (NLR 7:7)

"APPROVED FOR RELEASE: 09/24/2001

CIA-RDP86-00513R000515830003-6



APPROVED FOR RELEASE: 09/24/2001

CIA-RDP86-00513R000515830003-6"

GOL'TSEVAN, M.M., instancer.

Drying power transformers. Elektrichesstvo no.5:72-76 Ny '56.

1. Dneproenergo.

(MLRA 9:8)

(Electric transformers)

Gol'tsman, N. I.
SSSR/Optics - Physiological Optics, K-9

Abst Journal: Referat Zhur - Fizika, No 12, 1956, 35928

Author: Yarbus, A. L., Gol'tsman, N. I.

Institution: None

Title: Motion of Eyes During the Perception of Images in Three-Dimensional Movies

Original

Periodical: Tr. In-ta biol. fiz., AN SSSR, 1955, 1, 172-177

Abstract: Records are given of motion of the eyes during the perception of stereo-images and stereo films. The records show that the motion of the eyes during the perception of 3-dimensional are analogous to the motions of the eyes during the perception of real objects, i.e., processes of fixations, of the shifts in the fixation points ("jumps"), following, convergence, and divergence of the eye, all take place.

Card 1/1

GOL'TSMAN, N.I.

Category : USSR/Optics - Physiological Optics

K-9

Abs Jour : Ref Zhur - Fizika, No 2, 1957, No 5313

Author : Ivanov, M.T., Semenovskaya, Ye.N., Gol'tsman, N.I.
Inst : VNIPI, USSR

Title : Investigations in the Sphere of Perception of Stereoscopic Images

Orig Pub : Probl. fiziol. optiki, 1955, 11, 70-83

Abstract : An investigation of the perception of stereoscopic images was carried out in a specially-constructed stereoscope, where it was possible to change both the degree of illumination of the right and left images, as well as the degree of their separation, and also using a reticulated screen for spectacle-less stereoscopic projection of motion picture frames and test patterns. In the perception of stereoscopic pictures the observer should assume a definite position of the body and of the head, so as not to leave the optimum observation zone and so as not to lose the spatial placement of the object. This causes a strain in the muscles and considerable fatigue of vision. The fatigue was investigated with the following methods: by measuring the electric sensitivity and stability of the optical analyzer in their comparisons, the

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Category : USSR/Optics - Physiological Optics

K-9

Abstr Jour : Ref Zhur - Fizika, No 2, 1957, No 5313

instability of clear vision, and the muscle balance of the eye. Comparison of the directions in the change in the instability and excitability made it possible to judge the phase changes in the state of the central nervous system even before the occurrence of fatigue. The most important factor in the fatigue, in addition to the one mentioned above, is the insufficient degree of separation of the right and left images. Depth perception turned out to be a very stable quantity and was disturbed only when one of the eyes is quite heavily darkened and when the quality of the separation was poor. The following recommendations are made: the unevenness in the illumination of the two eyes must not exceed 30%, the purity of separation must not be lower than 92 -- 95%. Bibliography, 12 titles.

Card : 2/2

HELOSTOTSKIY, Ye.M., GOL'TSMAN, N.I., SEMENOVSKAYA, Ye.N.

Space perception in stereoscopic cinematography. Probl.fiziol.opt.
12:255-265 '58 (MIRA 11:6)

1. Stermolaboratoriya Vsesoyuznogo nauchno-issledovatel'skogo
kino-fotoinstituta i Laboratoriya fiziologicheskoy optiki im. prof.
S.V. Kravkova Gosudarstvennogo nauchno-issledovatel'skogo instituta
glaznykh bolezney im. Gol'mgol'tsa.
(VISION)

L 08390-67

ACC NR: AR6032363

SOURCE CODE: UR/0264/66/000/007/V005/V005

AUTHOR: Dymerskiy, V. Ya.; Gol'tsman, N. I.

TITLE: Quantitative analysis of screen image perception and monitoring indicators based on the observer's position

SOURCE: Ref. zh. Vozdushnyy transport, Abs. 7V30

REF SOURCE: Sb. Psichologiya i tekhnika, M., Prosveshcheniye, 1965, 118-132

TOPIC TAGS: perception, test monitoring, quantitative analysis, image perception

ABSTRACT: A series of calculations has been made, based on a quantitative analysis of perceptual processes, describing image perception in respect to screen dimensions, type of image, and the position of the operator. Mean values of the relative errors in perception of projected linear standards of (4—20 cm) the lines either differed from the standard by 20, 10, 5 and 2.5% or the lines equal to the standards were analyzed in direct psychological testing of 25 students. The distance of the screen from the test subjects was 0.5, 2.0, or 8.0 m. The line of

Card 1/2

UDC: 629.13.05

L 08390-67

ACC NR: AR6032363

vision was directed towards the objects at angles of 0°, 30°, and 60° to the normal of the screen's surface. It was established that the estimate of differences in dimensions of horizontal screen images does not depend significantly on the angle of vision. The perception of a complex "meaningful" object (human face and its expression) is also independent of both the angle of vision and the observer's distance from the screen. It is assumed that the perception of objects of intermediate complexity, such as symbol indicators, should also follow the same rule.
V. Shopen. [Translation of abstract]

SUB CODE: 05, 01, 17/

Card 2/2 c&g

KOZLOVSKIY, S.M.; GOL'TSMAN, N.I.

Special characteristics of perception in studying the process of
photographic reproduction in black and white tones. Vop. psichol.
10 no.1872-82 Ja-F'64 (MIRA 17t3)

1. Vsesoyuznyy nauchno-issledovatel'skiy kinofotoinstitut, Moskva.

DR. TSARIN, O. G.

"Form-Developing Potentials of Skin in the Process of Regeneration I. Participation
of Alien Skin in the Process of Regeneration of a Limb of the Axolotl," Chair of General
Military Medical Institute III, Moscow, Byull. Biolog. i Medits. No 8 (2),
pp. 119-122, 1937

Translation available in NM

GOL'TSMAN, O. G. Cand. Biolog. Sci.

Dissertation: "Concerning the Role of Skin in the Process of Organ Regeneration." Second Moscow State Medical Inst imeni I. V. Stalin,
19 May 47.

SO: Vechernyaya Moskva, May, 1947 (Project #17836)

MAUNOV, N.A.; KUDZLOW, V.Ye; GOL'TSMAN, O.O., redaktor

[Elements of botanical microscopy techniques] Osnovy botanicheskoi
mikroskopii. Moskva, Gos. izd-vo "Sovetskaiia nauka," 1954. 312 p.
[Microfilm] (MIRA 8:4)

(Botany) (Microscopy--Technique) (Photomicrography)

FREYGINSON, N.I.; GOL'TSMAN, O.G., redaktor; TEREKHOVA, D.F., tekhnicheskiy
redaktor

[Fundamental problems of Michurin genetics] Osnovnye voprosy michu-
rinekoi genetiki. [Moskva] Izd-vo Moskovskogo univ., 1955. 453 p.
(Genetics) (NIRA 9:3)

GOL'TSMAN, O.G.

RZHANOVA, Yevdokiya Ivanovna; GOL'TSMAN, O.G., red.; POMALEN'KAYA, O.T.,
red.izd-va; GEGOROYEVA, G.Y., tekhn.red.

[Biological principles of cultivating perennial grasses; formation
of organs of fertilization in common timothy, tall cat grass, meadow
fescue, and awnless brome grass] Biologicheskie osnovy kul'tury
mnogoletnikh slakov; formirovaniye organov plodonosheniya u timo-
feevki lugovoi, raigrasa vysokogo, ovsianitsy lugovoi i kostra
bezostogo. [Moskva] Izd-vo Moskovskogo univ., 1957. 148 p.
(Grasses) (MIRA 11:4)

ANDREYENKO, Stepan Sidorovich; KUPERMAN, Yanni Mikhaylovna; RUBIN, B.A.,
prof., obshchiy red.; GOL'TSMAN, O.G., red.; LAZAREVA, L.V.,
tekhn. red.

[Physiology of corn; studies on the physiology of development,
growth, photosynthesis, mineral nutrition, and water regimen]
Fiziologiya kukuruzy; ocherki po fiziologii razvitiia, rosta,
fotosintesa, mineral'nogo pitanija i vodnogo rezhima. Pod
obshchey red. S.A.Rubina. Moskva, Izd-vo Mosk.univ., 1959.
288 p.

(MIRA 12:12)

(Corn (Maize))

GOLETSMAN, R. I.

25581. GOLETSMAN, R. I.

Pribyli so sverkhatomosfernym davleniem stalt, 1946, No. 7, s. 632-35.

SO: Letopis' Zhurnal Statey, No. 70, Moscow, 1946

CH GOL'TSMAN, R-1.

9

Deadheads with superatmospheric pressure. A. D. Popov, B. I. Gil'yaman, and E. M. Blank. *Ref. 8, 1950*.—Chromium was successfully tested for creating superatmos. pressure in deadheads. Various other substances (electric, charcoal, steel scale) were tested for the vol. of gas which they produce, their decompo. temp., and duration of gas evolution. Expts. were also carried out on carbonizing the metal in the deadhead in order to delay its solidification. When this is practiced, care must be taken not to use too much C lest the difference in the C content between the metal in the deadhead and the casting is too great since it is likely to cause cracks during subsequent cutting of the deadhead. Diagrams of deadhead arrangements with gas-generating charges are given.
M. Houch

Ural Inst. Famous Metals

KAGAN, D.P., kand. tekhn. nauk; DUBROVKIN, S.D., kand. tekhn. nauk;
GOL'TSMAN, Sh.L., inzhe.

Laying plastic pipelines inside buildings. Vod. i san. tekh.
no. 6:21-26 Ja '64 (MIRA 18:1)

"APPROVED FOR RELEASE: 09/24/2001

CIA-RDP86-00513R000515830003-6

~~ZOL'TSANOV, V.G.~~

VAYNSHTEIN, B.Z., inzhener; GOLITZMAN, V.G., inzhener; DEMKOVITS, N.G.,
inzhener; SHTEKHANSKIY, Yu. L., inzhener; LERDIEVA, V.I., inzhener.

Replies to N.F.Burshinskii's article "Articles from protection
against electric current." Energetik 4 no.11:11-15 N '56.

(MIRA 9:12)

(Clothing, Protective) (Electric engineering—Safety appliances)

APPROVED FOR RELEASE: 09/24/2001

CIA-RDP86-00513R000515830003-6"

~~GOL'TSMAN, V.G., inshener; RYTSLEN, A.N., inshener.~~

Concerning the operating circular "More precise testing of porcelain
insulators." Elek. sta. 28 no.1:91 Ja '57. (MLRA 10:3)
(Electric insulators and insulation--Testing)

"APPROVED FOR RELEASE: 09/24/2001

CIA-RDP86-00513R000515830003-6

GOL'TSMAN, V.G.

Problem of purification in water supply systems. Prom. energ.
IS no. 10044-15 0 '63. (MIRA 16:10)

APPROVED FOR RELEASE: 09/24/2001

CIA-RDP86-00513R000515830003-6"

GOL'TSMAN, V.I.

Combustion of cupola gases. Gaz. delo no.10:57-60 '63.
(MIRA 17:4)
1. BPK i TP NII santechniki.

"APPROVED FOR RELEASE: 09/24/2001

CIA-RDP86-00513R000515830003-6

GOLITSCHAN, V. I. ~~and others~~

Determining the content of CO₂ max in flue gases. Lit. precisv.
no. 7117418. JI. '65. (MIRA 18:8)

APPROVED FOR RELEASE: 09/24/2001

CIA-RDP86-00513R000515830003-6"

(Top left corner of page)

LAPTEV, G.P., and V.K. GOL'TSMAN

Teatriia manometricheskikh aeronevigationnykh priborov. Moskva, Izd. Voenno-vozdushnoi akademii im. N.E. Zhukovskogo, 1945.

Title tr.: Theory of manometric air navigation instruments.

NCF

SO: Aeronautical Sciences and Aviation in the Soviet Union, Library of Congress, 1955

GOL'TSMAN, V.K.

BUSLOV, Gavril Konstantinovich, 1837-1935.

[Theoretical mechanics] Teoreticheskaya mekhanika. Issd. 3.
posmertnoe, pod red. M.M. Dukhgoł'tsa i V.K. Gol'tsmana. M., Gos.
issd-vo tekhn.-teoretich. lit-ry, 1946. (MLRA 7:5)
(Mechanics)

GOLITSMAN, V.K.; KUZNETSOV, P.I.

Mathematics - Computational Methods Mar/Apr 52

N.N. Luzin's Works on Differential Equations and on Computational Methods,"
V. K. Gol'tsman, P. I. Kuznetsov. *Uspekhi Matemat Nauk*, Vol VII, No. 2 (48),
pp 17-30

PA 214T52

GOLOTSCHAN, V. K.

~~SECRET - COMINT~~~~REF ID: A6252~~

"V. K. Lutin's Works on Differential Equations and
Computational Methods," V. K. Gol'tschan, P. I.
Bogolyubov,

"Vopros Matematicheskikh Nauk" Vol VII, No 2, (48), pp 17-30

discusses how Lutin reduced N. Ye. Zhukovskiy's
 $\frac{du}{ds} = f_1(u) + f_2(s)$, which he showed possessed
only one limiting soln for certain conditions on
 $f_1(u)$. Later works of Lutin were connected with
certain problems of automatic regulation, involving

~~SECRET~~

equations of type of linear differential eqs
with time delays. Moskovskie Trudy po
teorii i primeneniyu differentsial'nykh uravnenii
and Lutin's calcn of the singular eq (for
example).

~~SECRET~~

GOL'TSMAN, V. K.

DSEK/Magistrering - Hydraulics, Concrete Jun 51
Structure

"Application of Welded Steel Trusses in Hydraulic
Construction," V. K. Gol'tsman, Engr

"Gidrotekhn Stroi" No 6, pp 6-10

Describes concrete works during construction of
intake pipes of hydroelec power station, using
carrying trusses of which concrete molds are
attached. Deflection of trusses occurs simulta-
neously with placing of concrete. Method prevents
formation of stresses and possible cracks in re-
inforced concrete and simplifies concrete works.

199749

GOL'TSMAN, V.Kh., Inzhener.

Using prestressed reinforced concrete rods and envelopes in building
hydraulic structures. Bet.i zhel.-bet. no.6:197-201 Je '56.
(MLRA 9:8)

(Prestressed concrete construction)

GOL'TSMAN, V.Kh., inzhener.

Building the engine house of a hydroelectric power station
using prestressed precast concrete shells. Gidr. stroi. 25
no. 4: 6-12 My '56. (MLRA 9:9)
(Hydroelectric power stations)
(Prestressed concrete construction)

~~GOL'TSMAN, V.Kh., inshener.~~

Calculating the strength of buildings of hydroelectric power stations.
Gidr. stroy. 26 no. 5:17-23 My '57. (MIRA 10:6)
(Hydroelectric power plants)

14(6)

AUTHOR:

Gol'tsman, V.Kh., Engineer

SOV/98-59-4-2/17

TITLE:

Cellular Hydroelectric Structures Made of Tubular
Reinforced Concrete Piles (Yacheistyye gidrotekh-
nicheskiye konstruktsii iz trubchatykh zhelezobe-
tonnykh svay)

PERIODICAL:

Gidrotekhnicheskoye stroitel'stvo, 1959, Nr 4, pp
7-13 (USSR)

ABSTRACT:

The author stresses the advantage of cellular
hydraulic structures made of tubular reinforced
concrete piles over those of conventional type. By
applying the new construction method, the cut in
the total construction costs will amount to 30-35%
and the construction period will be made shorter by
up to 2 years. The new construction method will
fully or partially eliminate the erection of the
following elements: cofferdams, earth dams, concrete
structures for the purpose of joining, and both feed
and derivation canals. It will also render extensive

Card 1/3

SOV/98-59-4-2/17

Cellular Hydroelectric Structures Made of Tubular Reinforced Concrete Piles

damming operation needless, cut electric power consumption considerably, and bring great economy in the use of construction and transportation equipment. The construction of a cellular-type hydroelectric power plant is carried out as follows. Across the river bed, a row of cylindric structures of 10-40 m in diameter is built. Each cylindric structure consists of as many as thirty 1-3 m-thick tubular piles made of reinforced concrete and arranged in a circle. The piles are driven into the river bottom as deep as 25 m. They consist of 6-9 m high sections weighing 20-30 tons each. Similar piles have been developed by Engineer K.S. Silin and were up to now used in bridge construction over extra-deep rivers. The power-generating units and spillway installations are then built into the cylindric structures. The author suggests that the most favorable conditions to apply this construction method are in the

Card 2/3

SOV/98-59-4-2/17
Cellular Hydroelectric Structures Made of Tubular Reinforced
Concrete Piles

area of Sovetsk, Neman river, where a hydroelectric power project is apparently planned. The total amount to be saved by the new construction techniques would be at least 100 million rubles. There are 6 diagrams, 1 photograph and 1 Soviet reference.

Card 3/3

10(4), 24(5)

SOV/98-59-9-8/29

AUTHOR: Gol'tsman, V.Kh., Rudakov, V.N. and Rubina, A.L.,
Engineers

TITLE: Determination of Vertical Reactions on Flexible Grounds

PERIODICAL: Gidrotekhnicheskoye stroitel'stvo, 1959, Nr 9,
pp 27-33 (USSR)

ABSTRACT: The authors consider conventional statistical methods
for computation of reactive forces caused by pad foun-
dation pressure as idealized. They try to bring some
new ideas to this field of theoretical mechanics,
using also preceding works prepared by P.L. Paster-
nak (Ref 1), P.P. Laupman and V.S. Eristov, (Ref 2),
by taking into account bending of the foundation and
the plasticity and non-uniformity of the ground. Se-
veral formulas based on these principles are given.
There are 3 graphs, 1 set of diagrams and 3 Soviet
references.

Card 1/1

LEVSHIN, S.A., inzh.; GOL'TSMAN, V.Kh.

Precast reinforced concrete in the construction of the Kaunas
Hydroelectric Power Station. Gidr. stroi. 30 no.4:15-19 Ap '60.
(Kaunas Hydroelectric Power Station)
(Precast concrete construction)

GOL'TSEVAN, V. Kh., iizh.

Improving some types of precast construction of hydraulic structures.
Udr. i stroi. 30 no. 5:9-12 My '60. (MIRA 14:5)
(Precast concrete construction)
(Hydraulic structures)

GOL'TSMAN, Molf Khananovich; TRISTOVA, O.N., red.; FRIDKIN, A.M.,
tekhn. red.

[The composite concrete of the Kaunas Hydroelectric Power
Station building] Sborno-monolitnyi zhelezobeton zdaniiia
Kaumasskoi GES. Moskva, Gosenergoizdat, 1962. 142 p.
(MIRA 15:12)

(Kaunas Hydroelectric Power Station—Concrete construction)

GOL'TSMAN, V. N. a. i. mzh.

Calculations for the stability of structures. Gidr. stroi. 32
no. 8:47-48 Ag. '62. (MIRA 15:9)
(Stability)

GOL'TSHAN, V.Kh., inzh.

Fishway on the Saratov Hydroelectric Power Station. Gidr. stroi.
33 no. 5 27-29 My '63.
(MIRA 16:5)
(Saratov Hydroelectric Power station—Fishways)

OBOZNIY, V., kamenshchik; GATILOV, L., plotnik; GOL'TSMAN, Ye.; RUDAK, L.;
ZHILOV, V.

On a matter of concern to many. Sov.profsoiuzy 7 no.9:29-30 My
'61. (MIRA 14:4)

1. Brigada kommunisticheskogo truda stroitel'no-montazhnogo
upravleniya No.6 tresta "Kurskpromstroy" (for Oboznyy). 2. Stroitel'-
no-montazhnoye upravleniya No.5 tresta "Kurskpromstroy" (for Gatilov).
3. Redaktor mnogotirashnoy gazety "Na stroyke" (for Gol'tzman).
4. Prorab "Promtekhmontazha" (for Rudak). 5. Neshtatnyy korrespon-
dent zhurnala "Sovetskiye profsoyuzy" (for Zhilov).

{Ryshkovo—Construction workers)
(Restaurants, lunchrooms, etc.)

GOL'TSAMAN E. M.

PA 10T84

Medicine - Neurosurgery
Medicine, Military

Mar 1947

"Late Dystrophic Osseous Processes After Gunshot
Lesions of Peripheral Nerves," E. M. Gol'tsamani,
A. G. Molotkov, 4 pp

"Voprosy Neyrokhirurgii" Vol XI, No 3

Discussion of distortion of toe bones. Includes
two diagrams.

10T84

"APPROVED FOR RELEASE: 09/24/2001

CIA-RDP86-00513R000515830003-6

GOL'TSHEV, Ye. M.

Gol'tshev, Ye. M. - "On late dystrophic changes in bones of limbs after injury to peripheral nerves," In symposium: VIII sessiya Neurokhirurg. soveta i Leningr. in-ta neurokhirurgii (Akad. med. nauk SSSR), Moscow, 1948, p. 216-18

SC:U-3600, 10 July 53, (Letopis 'Churnal 'Nlykh Statey, No. 6, 1949).

APPROVED FOR RELEASE: 09/24/2001

CIA-RDP86-00513R000515830003-6"

GOL'TSEVAN, E.M.

25282 GOL'TSEVAN, E.M. O Metastazakh Zlokachestvennykh Opukholey V Gol-
ovnoy Mozg. Voprosy Neirokhirurgii, 1949. No. 4. S. 48-52. Bibliogr: S. 52

SO: Letopis' No. 33, 1949

USSR/Medicine - Radiobiology

Card 1/1 : Pub 13B 13/22 FD-703

Author : Gol'tsman, Ye. M. and Kashchenko, V. A.

Title : The diagnostic value of some roentgenographically discovered changes in the occipital bone when there are tumors in the posterior skull cavity

Periodical : Vest. Rent. i Rad. 65-68, May/June 1954

Abstract : X-rays of the skull in 90% of the patients suffering from tumors in the posterior skull cavity show a regular narrowing of the posterior hemisphere of the large occipital orifice. This change should be considered as a local symptom arising as a result of the direct pressure of the tumor on the basal division of the occipital bone.

Institution : Leningrad Scientific-Research Neurosurgical Institute imeni Professor A. L. Polenov (Director - Acting Member Academy of Medical Sciences USSR Professor V. N. Shamov)

Submitted : Presented at the IV All-Russian Neurosurgical Conference at Rostov-on-Don, June 1953.

GOL'TSMAN, Ye. M.

Clinico-rentgenologic findings in craniostenosis. Vop. neirokhir.
18 no. 2:52-57 Mr-Apr '54.
(MLRA 7:5)

1. Is klinicheskogo otdela Leningradskogo nauchno-issledovatel'skogo neurokhirurgicheskogo instituta imeni prof. A.L. Polenova.
(Postupila v redaktsiyu 30.VI.1953)
(CRANIUM, abnormalities,
*craniostenosis, x-ray) (ABNORMALITIES,
*craniostenosis, x-ray)

GOL'TSIN, Ye. M.

BABCHIK, I.S., professor; GOL'TSMAN, Ye.M.

Treatment of medulloblastomas in children. Vop.neirokhir.
19 no.5:8-13 S-0 '55. (MLRA 8:11)

1. Is Leningradskogo nauchno-issledovatel'skogo neyro-khirurgicheskogo instituta imeni prof. A.L.Polenova.
(CEREBELLUM, neoplasms,
medulloblastoma in child., ther.)
(MEDULLOBLASTOMA,
cerebellum, ther. in child)

~~GOL'TSEMAN, Ya. M.~~

Fibrous dysplasia of the cranium. Vest. rent. i rad. 31 no.3:47-50
My-Je '56.
(MLRA 9:9)

1. Is Leningradskogo nauchno-issledovatel'skogo neurohirurgicheskogo
instituta imeni prof. A.L.Polenova (dir. - deyestvitel'nyy chlen
AMN SSSR prof. V.N.Shamov)
(OSTEITIS FIBROSA,
cranium (Rus))
(CRANIUM, diseases,
osteitis fibrosa (Rus))

GOL'TSMAN, Ye.M.; LUBINSKIY, Ye.G.; POTANINA, M.N.

Mosinophilic granuloma of the skull [with summary in English, p.157].
Vest.khir. 77 no.3:59-64 Mr '56.
(MLR4 9:?)

1. In Leningradskogo nauchno-issledovatel'skogo neurokhirurgicheskogo instituta imeni prof. A.L.Polenova (dir. - prof. V.N.Shamov)
(MOSINOPHILIC GRANULOMA
cranium, diag.)
(GRANITUM, neoplasms
mosinophilic granuloma, diag.)

GOL'TSMAN, Ye. N.

Diagnosis of bone abnormalities of the cervico-occipital region.
Op.neirokhir. 21 no.3:39-43 My-Je '57. (MLRA 10:10)

1. leningradskiy nauchno-issledovatel'skiy neurokhirurgicheskiy
institut imeni prof. A.L.Polenova.
(OCCIPITAL BONE, abnorm.
basilar impression with cervical spinal deform., diag.)
(SPINE, abnorm.
cervical deform. with basilar impression, diag.)

GOLITSMAN, Ye. M.

On clinical and roentgenological diagnosis of tumors of the lateral ventricles of the brain. Zhur.nerv.i psich. 59 no.9:1082-1087 '59.

(MIRA 12:11)

L. Leningradskiy nauchno-issledovatel'skiy neurokhirurgicheskiy institut im. A.L. Polenova (dir. - prof. V.N. Shamov).
(CEREBRAL VENTRICULAR neoplasms)

GOL'TSMAN, Ye. M.

Diagnosis of transtentorial prolapse of the walls of dilated cerebral ventricles. Sber. trud. Len. nauchn. ob-va nevr. i psich. no.6:96-105 '59.
(MIRA 13:12)

1. Is Leningradskogo nauchno-issledovatel'skogo neurokhirurgicheskogo instituta imeni prof. A.L. Polenova (direktor -deystvitel'nyy chлен Akademii meditsinskikh nauk SSSR prof. V.N. Shamov').
(BRAIN—DISEASES)

KONDRATENKO, O.I.; GOL'TSMAN, Yo.M.

Izpolnas of the corpus callosum. Zhur. nevr. i psikh. 61 no.4:488-
492 '61.
(MIRA 14:7)

1. Detskoye otdeleniye kafedry nervnykh bolezney (zav. - prof. S.N.
Davidenkov) Leningradskogo instituta usovershenstvovaniya vrachey
imeni S.M.Kirova.

(BRAIN--TUMORS)

DOL'TSMAYER, O. P.

GOL'DTSAYER, O. P.: "The May beetle (*Melolontha hippocastani* f.) in the forest steppe region of Novosibirsk Oblast." Tomsk State U imeni V. V. Kuybyshev. Novosibirsk, 1956. (DISSERTATION For the Degree of Candidate in BIOLOGICAL SCIENCES.)

So: Knizhnaya letopis', No 24, 1956

GOL'TSOV, A.

Distribution and utilization of manpower on collective farms. Sots.
trud 5 no.5:32-41 My '60. (MIRA 13:11)
(Collective farms)

GOL'TSOV, A.

Use of labor resources on collective farms. Biul.nauch.inform.:
trud i nar.plata no.6:35-44 '59. (MIHA 12:9)
(Collective farms) (Labor productivity)

COL'TSOV, A.A.; DUDOROV, I.T.; KOLOMIYETS, A.A.; RAZLUKINA,
M.L.; KURZINA, I.A.; red.; CHIGHEV, Yu.I., red.

[Vegetable farming in a mechanized vegetable-gardening
brigade; experience with A.L.Karpattseva's brigade
("Bol'shevik" State Farm in Moscow Province)] Vozdelyvanie
ovoshchей v mekhanizirovannoi ovoshchevodcheskoi brigade;
opyt brigady A.L.Karpattsevoi (sovkhоз "Bol'shevik" Mo-
skovskoi oblasti) Moskva, Kolos, 1965. 134 p.
(MIRA 18:7)

LAZUTKIN, Ye.S.; RUSANOV, Ye.S.; EYDEL'MAN, R.A.; TRUBNIKOV, S.V.; KAPLAN, I.I.; ZAGORODNIKOV, M.I.; GOL'TSOV, A.N.; TATARINOVA, N.I.; SONIN, M.Ya.; SHISHKIN, N.I., doktor geogr.nauk; ANTOSENKO, Ye.G.; ZENYKHOVA, I.I.; KOSYAKOV, P.O.; MATROZOVA, I.I.; ZELENSKIY, G.N.; SEMENENKOV, Ya.S.; ZALKIND, A.I., red.; RUSANOV, Ye.S., red.; SRTEYNER, A.V., red.; MIKHAILOVICHENKO, N.Z., red.; GERASIMOVA, Ye.S., tekhn. red.

[Manpower of the U.S.S.R.; problems in distribution and utilization]
Trudovye resursy SSSR; problemy raspredeleniya i ispol'zovaniia. Pod red. N.I. Shishkina. Moskva, Izd-vo ekon.lit-ry, 1961. 243 p. (MIRA 14:12)

Moscow. Nauchno-issledovatel'skiy institut.
(Manpower)

"APPROVED FOR RELEASE: 09/24/2001

CIA-RDP86-00513R000515830003-6

GOL'TSOV, I.P.

Insmatich thermometer. Priborostroenie no. 5:13-14 My '60.
(MIRA 14:5)
(Thermometers)

APPROVED FOR RELEASE: 09/24/2001

CIA-RDP86-00513R000515830003-6"

GOL'TSOV, I.S., inzhener-geolog.

Obtaining uniform and unconditioned coal reserves by the hydromechanical
method. Ugol' 28 no. 6:42 Je '53. (MLRA 6:6)

1. Treat Korkinogol'.

(Coal mines and mining)

"APPROVED FOR RELEASE: 09/24/2001

CIA-RDP86-00513R000515830003-6

GOL'TSOV, N.A.

General formulas for determining the frequency in cascading circuits
of polyphase asynchronous commutatorless machinery. Izv. vys. ucheb.
zav.; elekromekh. 1 no. 4442-43 '58. (MIRA 11:8)
(Electric machinery--Alternating current)

APPROVED FOR RELEASE: 09/24/2001

CIA-RDP86-00513R000515830003-6"

SOV/20-120-3-2/67

AUTHOR:

Gol'berg, ...

TITLE:

The Application of Functional Series for Obtaining the Formulas for Different Numerical Methods for the Solution of Ordinary Differential Equations (Primeneniye odnogo funktsional'nogo ryada dlya vvedeniya formul razlichnykh chislennykh metodov resheniya obyknovennykh differentsiyal'nykh uravnenii)

PERIODICAL: Doklady Akademii nauk SSSR, 1958, Vol 120, Nr 3, pp 450-453 (USSR)**ABSTRACT:** For obtaining the formulas for the numerical integration of ordinary differential equations the series

$$(1) \quad y(x_n + h) = \sum_{k=0}^p \sum_{i=1}^{m_k} h^k c_{ki} y^{(k)}(x_n + \epsilon_{ki} h), \quad m_k = m_c, m_1, \dots, m_p$$

is recommended. Here p is the order of the highest derivative of the sought function occurring in the calculations and m_k is the number of the derivatives of the same order in the calculations. The formulas for the numerical integration are set up in the form (1), where the coefficients are obtained from an algebraic system of equations which arises by equating the sum of the coefficients of the derivatives of equal order in

Card 1/2

The Application of Functional Series for Obtaining SOV/20-120-3-2/67
the Formulas for Different Numerical Methods for the Solution of Ordinary
Differential Equations

the decompositions of the terms of (1) in terms of powers and
the coefficients of the corresponding derivatives of the
Taylor expansion. As an example the system of equations for
the coefficients in the case $m = m_1 = m_2 = 4$ is given and
beside of well-known formulas of Adams, Duffing, Miln and
Simpson two new formulas are obtained.

There are 3 Soviet references.

ASSOCIATION: Energeticheskiy institut imeni G.M.Krzhizhanovskogo Akademii
nauk SSSR (Power Institute imeni G.M. Krzhizhanovskiy
of the Academy of Sciences of the USSR)

PRESENTED: January 13, 1958, by S.L. Sobolev, Academician

SUBMITTED: May 25, 1957

1. Differential equations 2. Series expansions

Card 2/2

GOL'TSOV, N.A., Cand Tech Sci -- (diss) "Analysis of frequency conversion ~~of alternating~~^{of three-phase} by means of asynchronous machines without commutators." MOS, 1959, 16 pp with diagrams (Acad Sci USSR. Power engineering Inst im G.M. Krzhizhanovskiy). Bibliography p 18 (14 titles) (KL, 36-59, 115)

SOV/144-59-7-6/17

AUTHOR: Gol'tsov, N.A., Assistant

TITLE: Frequency Conversion Using Two Asynchronous Brushless
MachinesPERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy,
Elektromekhanika, 1959, Nr 7, pp 41-44 (USSR)

ABSTRACT: The general topic of frequency conversion using asynchronous machines has been treated in Ref 2 and the separation of operating regimes into synchronous and asynchronous was made in Ref 1. Fig 1 shows the most general connection scheme in which the machine windings may be connected in any phase sequence and combination to the busbars, at frequencies f_1 and f_2 , by the switches $K_1 \dots K_8$. The possible modes of working are shown graphically in Table 1 and are characterized by a pair of coefficients a_i and B_i (see Ref 3). When motoring $a_i = -1$, $B_i = 1$; when generating and when doubly-fed, $a_i = -1$, $B_i = -1$; when braking $a_i = 1$, $B_i = -1$. In Table 1, which is based on results in Ref 3, the symbols have the following meanings: f_{s1} , f_{s2} are the frequencies of the stator currents and f_{r1} , f_{r2} those of the rotor currents; a is the ratio of the numbers of poles in the machines; β is the frequency-ratio; n is the rate of

Card 1/2

SOV/144-59-7-6/17

Frequency Conversion Using Two Asynchronous Brushless Machines
rotation of the common shaft; $\dot{\psi}$ is its normalized value.
The line diagram in Fig 2 enables the correct choice of
machine combination to be made for a given conversion.
The scheme of Fig 3 with a phase-wound rotor has been used
in the Elektromechanics Laboratory of the
G.M. Krzhizhanovskiy Energy Institute, AN SSSR. Connection
schedules 1 to 7 have been used giving 7 frequencies over
a control range of 1:9.5.
There are 3 figures, 1 table and 4 Soviet references.

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AUTHOR: Gol'tsau, N.A.

TITLE: On increasing the precision of results of numerical integration of differential equations

PERIODICAL: Referativnyy zhurnal, Elektrotehnika i energetika, no.12, 1962, 4-5, abstract 12 A14. (Nauchn. tr. Mosk. tekhnol. in-t legkoy prom-sti, no.20, 1961, 206-210)

TEXT: The paper considers the case of numerical integration of ordinary differential equations by means of the computational formula:

$$Y(x_n + h) = \sum_{k=0}^{k=p} \sum_{i=1}^{i=m_k} h^k c_{ki} Y^{(k)} (x_n + \alpha_{ki} h) \quad (1)$$

where: p is the order of the highest derivative of the requisite function, occurring in the calculations; m_k is the number of derivatives of the same order occurring in the calculations; c_{ki} are the coefficients indicating the weights of the derivatives;

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α_{ki} are coefficients defining the values of the arguments at which the known values of the requisite function and of its derivatives, which are used in the calculations, are taken. The total error in the calculation of the values of the requisite function and of its derivatives is represented as the difference:

$$\delta^{(k)}(x_n + ah) = y^{(k)}(x_n + ah) - \bar{y}^{(k)}(x_n + ah) \quad (2)$$

where: $y^{(k)}(x_n + ah)$ are the quantities figuring in the calculations; $\bar{y}^{(k)}(x_n + ah)$ is the actual value of the quantities utilized in the calculations. From Eqs. (2) and (1) is derived the general expression for the error at step h :

$$\begin{aligned} \delta(x_n + h) &= \sum_{k=0}^{k=p} \sum_{i=1}^{i=m_k} h^k c_{ki} \delta^{(k)}(x_n + \alpha_{ki} h) + \\ &+ \sum_{k=0}^{k=p} \sum_{i=1}^{i=m_k} h^k c_{ki} \bar{y}^{(k)}(x_n + \alpha_{ki} h) - \bar{y}(x_n + h) \end{aligned} \quad (3)$$

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